

ABSTRACT OF THE DISCLOSURE

Segregated deployment of downhole valves for monitoring and control of
5 multilateral wells. In a described embodiment, a well completion system
includes at least two tubular strings. One tubular string includes a flow control
device and sensor controlling and monitoring fluid flow into the tubular string
from a zone intersected by a wellbore. Another tubular string with another flow
control device and sensor controls and monitors fluid flow into that tubular
10 string from another zone intersected by another wellbore. The two wellbores
intersect. Each of the flow control devices is positioned in a respective one of the
wellbores and has at least one line connected to the flow control device. The lines
are installed in the wellbores without interruptions in the lines and without
requiring connections to be made in the lines downhole.